

T-1044-2017a

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What

- High rapidity Inner and Outer HCAL (4x4)
- High rapidity 2D projective EMCAL (8x8)
- T-1044-2016a EMCAL (8x8)
- HBD digitizers
 - Same 192 channels as last time
 - sphenixdaq/FE3/JSEB
- “New digitizers”
 - 128 channels plus spare
 - va096/DCM II/JSEB II
- Tile mapper
- Oleg’s hodoscope
- Veto counters
- Trigger S1•S2•S3

When

- Ship during week of Jan 9
 - Do not arrive Fri Jan 13
 - Mon Jan 16 is MLK holiday
- Wed Jan 18 is installation day
- Thu Jan 19 ORC
- Fri Jan 20 Inaugural run
- Tues Feb 21 uninstall
- Thu Feb 23 or Mon Feb 27 ship it back

HCAL next steps

- Some HCAL tiles are at or near BNL now
- Sal is making new SiPM boardd
- We can shut off the present HCALs and pull out the tiles (keeping them intact and functional)
- Early November we should be ready to put in a column of tiles to test
- Steve's working on the preamps, controller, and LED distribution
- We can relocate the HCAL anytime to the high- η position

EMCAL next steps

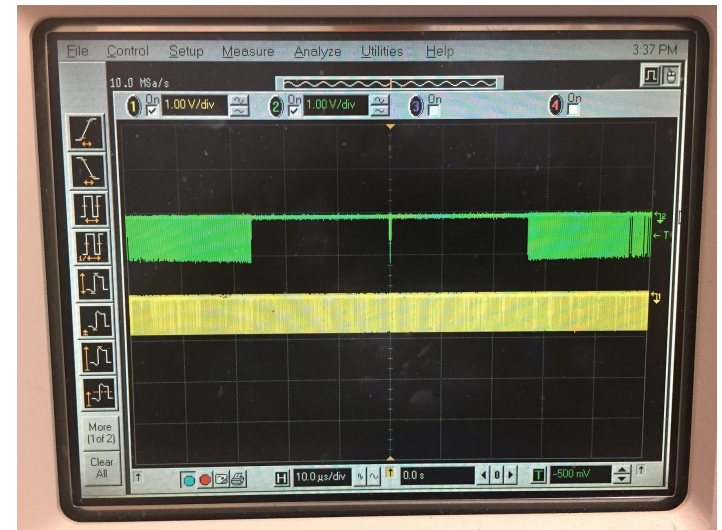
- There is some concern that the high- η EMCAL might not be ready at the beginning... I don't think that's terrible (as long as it's ready before ~Feb 7), but we should really try and have it ready to run
- I envision starting the beam test with the $\eta=0$ EMCAL on the 2c table
 - I want to look into scripting movement of the table to do a scan
- I think next up would probably be the $\eta=0$ EMCAL in front of the high- η HCAL
- Then we'd want systematic running with the high- η EMCAL

Electronics next steps

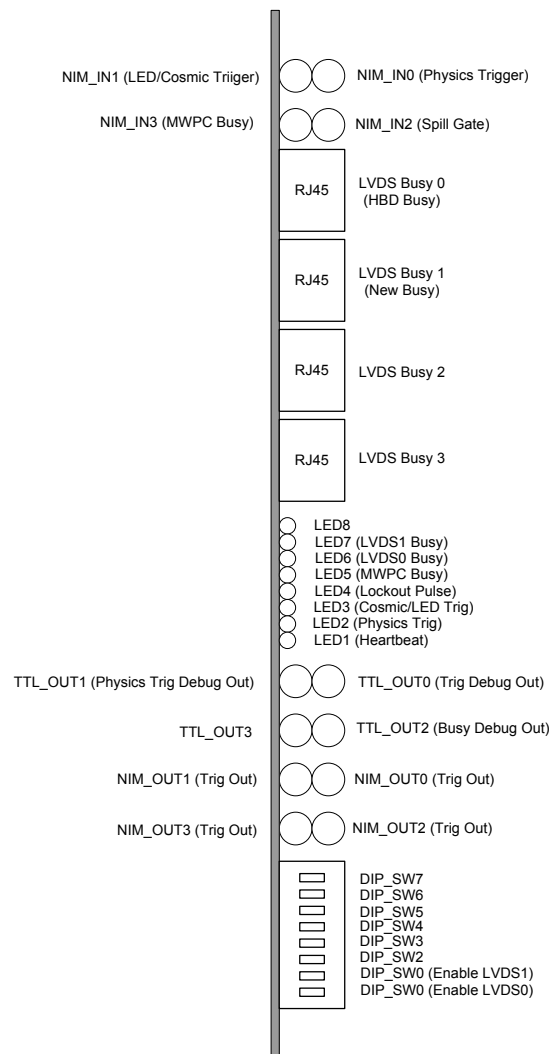
- We'll take the new digitizers and test them by whatever means is possible, but they are still a development project and not production electronics, and we are going to Fermilab to test the calorimeters, not the ADC's
- Even with what we have now, we could today make a measurement with the new electronics that would be useful

How to keep busy (or not)

- I asked Steve to modify the firmware in the “boosy box” to prevent some problems we had and to allow some fancier triggering
 - Trigger holdoff for 25 μ s (2.5% deadtime/kHz) may fix “hang”
 - Busy inputs for MWPC and second LVDS for new digitizers
 - Multiple trigger outputs
- I tested most of the features and they work (but you knew that, Steve did it)



Revised 10/4/16



Arrangements

- Eric updated the Wiki with some useful information
- On-site housing is tight (I'm wait-listed)
- Show your availability here:
 - <http://doodle.com/poll/2inumufgkdw8davz>
 - You can ask some of the people from last time, but I would suggest coming for 3-4 day stretches at a minimum
- Should someone look into scheduling a tour from QM?
- Make your Bien Trucha reservations